

## **PCT**

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#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	1	<del></del>	
00789-02	FOR FURTHER ACTION	Preliminary Ex	n of Transmittal of International tamination Report (Form PCT/IPEA/416)
International application No.	International filing date (day/mor	th/year)	Priority date (day/month/year)
PCT/US03/18734	12 June 2003 (12.06.2003)		12 June 2002 (12.06.2002)
International Patent Classification (IPC)	or national classification and IPC		
IPC(7): C07H 17/00 and US Cl.: 424/75	50-780; 435/7.23; 514/27, 44; 536/	1.11, 4.1, 24.5,	
Applicant			
UNIVERSITY OF VIRGINIA PATENT	' FOUNDATION		
This international prelimin     Examining Authority and i	nary examination report has been is transmitted to the applicant an	n prepared by tecording to Art	this International Preliminary icle 36.
2. This REPORT consists of	a total of 3 sheets, including	this cover shee	t.
which have been ame	nded and are the basis for this r	eport and/or sl	escription, claims and/or drawings neets containing rectifications made histrative Instructions under the PCT).
These annexes consist of a			
· 3. This report contains indica	tions relating to the following it	ems:	
I Basis of the repo	ort		
II Priority			
III Non-establishme	ent of report with regard to nove	elty, inventive s	step and industrial applicability
IV Lack of unity of			The second of th
V Reasoned statem	ent under Article 35(2) with reg	rard to novelty	inventive etc. as is livet 1
applicability; cita	ations and explanations supporti	ng such statem	ent
VI Certain documen	ats cited		
VII Certain defects in	n the international application		
	ions on the international applica	tion	
	dpa.	uon	
Date of submission of the demand	T Data	£ 1 0	63.
	Date o	f completion o	r this report
16 December 2003 (16.12.2003)	/	ust 2004 (12.08.	2004)
Name and mailing address of the IPEA/US  Mail Stop PCT, Attn: IPEA/US	S Authori	zed officer	10 all cosp be
Commissioner for Patents P.O. Box 1450	Ganap	iny Krishnan	Vim g > 7
Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230	1 /1	one No. 703-308	3-1235
Form PCT/IPEA/409 (cover sheet)(hily 190	1 17		



International Application No.	
PCT/US03/18734	

I.	Basis	s of the report
1.	With	regard to the elements of the international application:*
	$\boxtimes$	the international application as originally filed.
	$\boxtimes$	the description:
		pages 1-51 as originally filed
		pages NONE , filed with the demand
		pages NONE , filed with the letter of
	$\boxtimes$	the claims:
		pages 51-60 , as originally filed pages NONE , as amended (together with any statement) under Article 19
		pages NONE, as amended (together with any statement) under Article 19 pages NONE, filed with the demand
		pages NONE, filed with the letter of
	$\nabla$	the drawings:
		pages 1-9 as originally filed
		pages NONE , filed with the demand
		pages NONE, filed with the letter of
	$\boxtimes$	the sequence listing part of the description:
		pages 1-23 , as originally filed
		pages NONE , filed with the demand
_		pages NONE , filed with the letter of
2.	With	n regard to the language, all the elements marked above were available or furnished to this Authority in the uage in which the international application was filed, unless otherwise indicated under this item.
		the elements were available or furnished to this Authority in the following language which is:
	П	the language of a translation furnished for the purposes of international search (under Rule23.1(b)).
	Ħ	the language of publication of the international application (under Rule 48.3(b)).
	Ħ	the language of the translation furnished for the purposes of international preliminary examination(under Rules
		55.2 and/or 55.3).
3.	Wit	h regard to any nucleotide and/or amino acid sequence disclosed in the international application, the
	inter	national preliminary examination was carried out on the basis of the sequence listing:
	M	contained in the international application in printed form.
	M	filed together with the international application in computer readable form.
	닏	furnished subsequently to this Authority in written form.
		furnished subsequently to this Authority in computer readable form.
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the
		international application as filed has been furnished.
		The statement that the information recorded in computer readable form is identical to the written sequence listing
		has been furnished.
4.	$\boxtimes$	The amendments have resulted in the cancellation of:
	,	the description, pages None
		the claims, Nos. None
		the drawings, sheets/fig None
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go
		beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
*	Repla	cement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in
th	s repo	ort as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.
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### . "INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International action No. PCT/US03/18734

V. Reasoned statement under Rule 66.2(a)(	ii) with regar	d to novelty, inventive step or	r industrial applicability;
citations and explanations supporting su	ch statement		
. STATEMENT			
Novelty (N)	Claims	1-24,26 and 28-47	YES
	Claims	25 and 27	NO
To the Diese (TE)	Claime	1-24, 26, 28-47	YES
Inventive Step (IS)		25 and 27	NO
			YES
Industrial Applicability (IA)	Claims		NO
	Ciaims	NONE	
2. CITATIONS AND EXPLANATIONS			
Claims 25 and 27 lack novelty under PCT Article:	33(2) as being a	nticipated by Bjorback et al (WO	00/66721).
Bjorbaek teaches the use of a nucleic acid construc	t expressing Rs	2 in a method for treating obesity	y, reducing weight, reducing body
fat, reducing serum leptin levels or increasing oxy	gen consumption	n by inhibiting Rsk2 activity (page	e 21, lines 1-7 and page 34, lines
1-7).			
Claims 1-24, 26 and 28-47 meet the criteria set ou	t in PCT Articl	e 33(2)-(3), because the prior art of	loes not teach or fairly suggest th
specific compounds, compositions and the method	s in mese claim	S.	
Claims 1-47 meet the criteria set out in PCT Artic	le 33(4), and th	us meet industrial applicability be	cause the subject matter claimed
can be made or used in biotech/pharmaceutical inc	lustry.		

Form PCT/IPEA/409 (Box V) (July 1998)



## **PCT**

# NOTE OF INFORMAL COMMUNICATION WITH THE APPLICANT

ternational application No.		Applicant's or agent's file reference	Date of informal communication (day/month/year)	
CT/US03/18734		00789-02	12 August 2004 (12.08.2004)	
pplicant NIVERSITY OF VIRGINI	A PATENT	FOUNDATION		
		Identity	authorization personally	
ommunication	rticipants	checked	checked known	
by telephone	_ Applicant	t: Mr. John Breen		
personal 2	Agent: Examine	r(s): Ganapathy Krishnan		
ummary of communication	<u>ī</u> :	and the standard to the	make pegative statements and for observations	on the
The Examiner requested po- laims. Mr. Breen gave per	ermission to mission to d	go directly to a 409 despite the need to hoo so.	make negative statements and /or observations	
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_		anted (Form PCT/IPEA/427.  at to the applicant with Form PCF/IPEA.	/429. PCT/IPEA/424.	/
_	e is being sen	t to the applicant with Form DETAIPEA.	PCT/IPEA/424.	/

Form PCT/IPEA/428 (July 1992)